

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows.

1. (Currently Amended) A distributed system having a client and a server, comprising:  
a state manager interposed between the client and the server, the state manager having a capability to generate a list of a plurality of data attributes required to represent a state of an application in the distributed system and ~~a capability to cache~~ the plurality of data attributes so as to be locally accessible by the client; and  
a service component interposed between the state manager and the server, the service component having a capability to fetch data from the server based on the list of the plurality of data attributes.
2. (Original) The distributed system of claim 1, further comprising a transport mechanism interposed between the state manager and the service component, the transport mechanism having a capability to package data for transport between the state manager and the service component.
3. (Original) The distributed system of claim 1, wherein the state manager comprises means for learning data attributes required to represent a state of the distributed system.
4. (Original) The distributed system of claim 1, wherein the state manager comprises means for creating a proxy for data in the server, the proxy having a capability to cache attributes of data.
5. (Original) The distributed system of claim 4, wherein the state manager further comprises means for tracking changes made to attributes cached in the proxy.
6. (Original) The distributed system of claim 5, wherein the state manager further comprises means for generating a list of attributes changed in the proxy.
7. (Original) The distributed system of claim 6, wherein the service component comprises means for updating data using the list of attributes changed in the proxy.

8. (Original) The distributed system of claim 1, wherein the state manager further comprises means for generating an executable instruction comprising a set of method calls to be executed on the server.
9. (Original) The distributed system of claim 8, wherein the service component comprises means for interpreting the executable instruction.
10. (Original) The distributed system of claim 1, wherein data comprises an object.
11. (Currently Amended) A distributed performance optimizer for a distributed application, comprising:
  - a client portion that generates a list of a plurality of attributes of remote data required to represent a state of the application and ~~that has a capability to~~ caches the plurality of attributes from the remote data; and
  - a server portion that fetches attributes from the remote data based on the list of the plurality of attributes of the remote data.
12. (Original) The distributed performance optimizer of claim 11, further comprising a transport means that packages the attributes for transport between the server portion and the client portion.
13. (Original) The distributed performance optimizer of claim 12, wherein the client portion comprises a plurality of proxies for the remote data in the distributed application, the proxies having a capability to cache attributes from the remote data.
14. (Original) The distributed performance optimizer of claim 13, wherein the client portion further comprises means for tracking changes made to attributes cached in the proxies.
15. (Original) The distributed performance optimizer of claim 14, wherein the service component comprises means for synchronizing the remote data with the proxies.
16. (Original) The distributed performance optimizer of claim 12, wherein the client portion further comprises means for collecting information about attributes accessed in the proxies.

17. (Original) The distributed performance optimizer of claim 12, wherein the client portion further comprises means for generating an executable instruction comprising a set of method calls to be executed on the server.
18. (Original) The distributed performance optimizer of claim 17, wherein the service portion comprises means for invoking the executable instruction.
19. (Original) The distributed performance optimizer of claim 11, wherein data comprises an object.
20. - 37. (Canceled)
38. (New) The distributed system of claim 3, wherein the state manager comprises means for prefetching data based on the learning of data attributes.